

**IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF NORTH CAROLINA
STATESVILLE DIVISION**

RAMONA WINEBARGER and REX WINEBARGER,
Plaintiffs,

**CASE NOS. 5:15CV57-RLV;
3:15CV211-RLV**

v.
BOSTON SCIENTIFIC CORPORATION,
Defendant

MARTHA CARLSON,
Plaintiff,

v.

BOSTON SCIENTIFIC CORPORATION
Defendants

**PLAINTIFFS OBJECTIONS AND COUNTER DESIGNATIONS TO DEFENDANT
BOSTON SCIENTIFIC'S COUNTER DEPOSITION DESIGNATIONS OF
ROGER GOLDBERG, MD TAKEN DECEMBER 13, 2013**

BSC Counter Designation	Objection	Plaintiffs Counter Designation to BSC Counter Designation
rg121313, (Page 32:11 to 32:24) 32 11 Q. Have you done work with something 12 called the Pelvic Floor Institute? 13 A. I have. 14 Q. What have you done with the Pelvic 15 Floor Institute? 16 A. Well, the Pelvic Floor Institute 17 was a program that was put together involving 18 not only myself but a corps of academic 19 clinicians and surgeons. And as a group we 20 created, helped Boston Scientific to create 21 what we felt were state-of-the-art teaching 22 tools and academic teaching programs and 23 syllabi. And through that structure we were 24 involved with various training programs.	32:11-32:34 FRE 401, 402, 403	
rg121313, (Page 328:3 to 328:24)	328:3-328:23	

<p style="text-align: center;">328</p> <p>3 Q. Did you, for example, analyze for 4 yourself the concept of pore size in the mesh 5 that became the component part of the Uphold 6 device? 7 A. Well, you know, I consider myself 8 somewhat lucky by timing that, you know, by 9 the time my generation of surgeons entered the 10 field the market was -- consisted solely of 11 Type 1 polypropylene mesh products. 12 So my expertise on mesh is 13 certainly been consistently that I would only 14 implant the Type I polypropylene mesh because 15 of what we learned about nonType I materials. 16 But that, again, preceded my time. 17 As far as looking deeper again 18 into the characteristics of polypropylene or 19 the specific aspects of that mesh, no. But I 20 had also, you know, done hundreds if not 21 thousands of sling procedures. And like most 22 of my counterparts had a great comfort with 23 Type I polypropylene mesh as a very well 24 tolerated material.</p>	<p>FRE 401, 402, 403, 701, 702</p>	
<p>rg121313, (Pages 413:20 to 440:15) 413</p> <p>20 Q. State your name, please. 21 A. Roger Goldberg. 22 Q. Dr. Goldberg, tell the jury a 23 little bit about you, your family. 24 A. Well, I'm originally from Chicago 414</p> <p>1 and I'm married. My wife is from the East 2 Coast. We have four kids. 3 I've done my training in various 4 parts of the country. I spent about 10 years 5 out on the East Coast doing my residency as 6 well as undergraduate. 7 We eventually found our way back 8 here to Chicago where I did my fellowship 9 training in urogynecology and was fortunate 10 enough to be offered a position right out of 11 fellowship. 12 Q. Previously marked has been 13 Deposition Exhibit Number 786. 14 Does that reflect your 15 education, training, and experience? 16 A. It does.</p>	<p>BSC has previously designated this testimony. Plaintiffs adopt and incorporate any objections as set forth in their counter designations, if any.</p>	<p>Plaintiffs adopt and incorporate their counter designations, if any.</p>

<p>17 Q. And tell the jury just briefly 18 where you went to undergrad, medical 19 school, 20 residency, and then you have a Master's in 21 Public Health too. Just describe those for 22 me, if you would.</p> <p>22 A. Sure. So, again, I grew up here 23 in Chicago. I went out to Cornell University 24 for four years of undergraduate. I was a 415</p> <p>1 pre-med student and an English major. Came 2 back to Chicago for medical school at 3 Northwestern University. And then actually 4 took a year and did a Master's degree in 5 public health at Johns Hopkins in Baltimore in 6 epidemiology and biostatistics. And then 7 subsequently went to Boston where I did a 8 four-year residency in obstetrics and 9 gynecology and then decided to go into this 10 field, female pelvic medicine and 11 reconstructive surgery, and wound up back here 12 at Northwestern for that fellowship. That's a 13 three-year training with both research and 14 clinical and surgical training.</p> <p>15 Q. So a fellowship would be something 16 in addition to a residency?</p> <p>17 A. A fellowship is above and beyond 18 residency in obstetrics and gynecology.</p> <p>19 Q. Where is your clinical practice 20 here in the northern uppermost part of the 21 suburbs of Chicago? Tell the jury a little 22 bit about that.</p> <p>23 A. So we're sitting here in Skokie, 24 which is just north of Chicago, and I practice 416</p> <p>1 literally kitty-corner across the street. So 2 in Skokie, Illinois. We are close to 3 Northwestern University campus just to our 4 east.</p> <p>5 Our practice covers a geography 6 which stretches north and west. So essentially 7 the north part of Chicago. We service three 8 different hospitals and have about four 9 different office sites. I have four partners 10 and we train three fellows.</p> <p>11 Q. How many active patients do you 12 have or patient charts do you have that are 13 part of your clinical practice?</p> <p>14 A. It's always hard to estimate. On</p>		
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<p>15 a busy clinical day, I'll see perhaps 30</p> <p>16 patients. I operate on roughly four or five</p> <p>17 major cases per week. Sometimes more,</p> <p>18 sometimes less. But it's a very busy clinical</p> <p>19 practice. And multiplied out throughout the</p> <p>20 year, I'm sure that's several thousand active</p> <p>21 clinical charts at any time.</p> <p>22 Q. So when we talk about</p> <p>23 urogynecology, explain to the jury what that</p> <p>24 is and give the jury some sense for how your</p> <p style="text-align: center;">417</p> <p>1 practice may differ from a typical OB-GYN</p> <p>2 practice.</p> <p>3 A. We're very, very highly focused.</p> <p>4 We're focused strictly on female incontinence</p> <p>5 and pelvic floor and sometimes pain issues.</p> <p>6 But largely prolapse and incontinence is</p> <p>7 enough to keep us busy on a day-to-day basis.</p> <p>8 My average practice is really</p> <p>9 truly a blend of office and operating room,</p> <p>10 which is exactly what I love. It's a lot of</p> <p>11 variety.</p> <p>12 Our treatment, our patient</p> <p>13 population because we're a referral center we</p> <p>14 often see quite a severe, a number of severe</p> <p>15 cases every day, patients that are referred</p> <p>16 from sometimes far away and largely</p> <p>servicing</p> <p>17 also women who live right here in the</p> <p>18 community, but with significant incontinence</p> <p>19 and prolapse symptoms coming for our help.</p> <p>20 Q. Okay. So you've been practicing</p> <p>21 here in the North Shore medical group since</p> <p>22 what year?</p> <p>23 A. Well, I was a fellow from 1999</p> <p>24 through 2001, and in 2001 I was hired on. So</p> <p style="text-align: center;">418</p> <p>1 my actual out of training practice began in</p> <p>2 2001.</p> <p>3 Q. Okay. And in 2013 you received a</p> <p>4 special distinction from your hospital group.</p> <p>5 Describe that for the jury.</p> <p>6 A. Well, that was very recent. It</p> <p>7 was very nice. We've been privileged to</p> <p>8 receive a number of research awards and</p> <p>9 clinical awards, but this was special because</p> <p>10 it was from my peers. And I'll have to</p> <p>11 actually look to remind myself exactly what</p> <p>12 they call it.</p> <p>13 But it was a very surprising</p> <p>14 award that I received called the Distinguished</p>		
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<p>15 Physician Award for our whole healthcare 16 system. So that was a bit of a ceremony a 17 couple of weeks back. Total surprise.</p> <p>18 Q. Okay. You also serve on a 19 professional society and you're on the board 20 of directors for AUGS?</p> <p>21 A. That's right.</p> <p>22 Q. Describe what that is and why 23 is that significant.</p> <p>24 A. Well, AUGS is our premier 419 1 organization. It strives to be the leader 2 in female pelvic medicine. It's such an area 3 of need. We've driven a lot of the research 4 and discussion and awareness and science. 5 I was asked to run for the board 6 by the president at the time, Matt Barber, and 7 I really had never thought about doing so. I 8 had run committees for AUGS. And then ended up 9 winning the board election, which has turned 10 out to be a very interesting, engaged, and, you 11 know, fun process to be a part of and certainly 12 with lots of close colleagues that I've gotten 13 to know better.</p> <p>14 Q. Okay. When you talk about your 15 area of specialty -- and the jury may be 16 familiar with stress urinary incontinence and 17 pelvic organ prolapse -- I want to focus on 18 the pelvic organ prolapse part of that. 19 Describe why that's of interest 20 to you and give the jury some sense for what 21 that condition is and how it affects their 22 lives.</p> <p>23 A. Well, prolapse and incontinence, 24 they sound like small problems until you 420 1 have them. They are, in fact, first of all, 2 highly prevalent. We find that in some way, 3 shape, or form roughly 50 percent of women who 4 have had babies, by age 40 even, can describe 5 some loss of control over the bladder. Not to 6 say they all need surgery. That's a different 7 subject. However, this is a prevalent set of 8 conditions that affects women sometimes at a 9 shockingly young age.</p> <p>10 Women tend to retreat from often 11 times a normal quality of life, give up 12 exercise, not feel comfortable socializing. If</p>		
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<p>13 any one of us, you know, had a bladder accident</p> <p>14 right now, I mean you'd really have to stop and</p> <p>15 think if it were me, you know, what a 16 fundamental loss of control and self-esteem 17 that is. And it really truly every day is 18 amazing to see how impacted these women are by</p> <p>19 prolapse and incontinence. And on the flipside</p> <p>20 it's truly a privilege to help to greatly 21 improve their quality of life in really the 22 most fundamental way.</p> <p>23 Q. What about prolapse? What is 24 prolapse and how can that affect activities of</p> <p style="text-align: center;">421</p> <p>1 daily living?</p> <p>2 A. Well, prolapse is essentially a 3 loss of support involving the vagina or 4 uterus. These are support defects, as we call 5 them, that come in a variety, a whole range of 6 severities.</p> <p>7 So women with mild prolapse may 8 not need any treatment. It might be something</p> <p>9 their doctor notices.</p> <p>10 Women with severe prolapse are 11 the ones that typically reach our office, feel 12 like their insides are hanging out. I mean 13 it's a very abnormal, uncomfortable feeling.</p> <p>14 And to an extreme then when 15 those prolapses start to progress, which they 16 often do, that can really very significantly 17 impact a women's comfort, again, exercising, 18 walking, having sexual relations. That's the 19 nature of prolapse.</p> <p>20 Q. Okay. Let's focus, big picture. 21 From the time of your fellowship to the time 22 it ended, 2001, 2002, describe for the jury, 23 just focusing on pelvic organ prolapse, 24 describe for the jury what the treatment</p> <p style="text-align: center;">422</p> <p>1 options were, okay, and then let's talk a 2 little bit how these treatment options have 3 evolved in the last 10 years.</p> <p>4 A. Well, when I was a -- I've sort of 5 been obviously witness on a part of the 6 transition. We really have options and a 7 toolbox now that didn't exist 10 or 15 years 8 ago.</p>		
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<p>9 When I was a fellow, I caught 10 the tail end of the era where we really had a 11 fairly limited number of options. 12 In particular, women with 13 prolapse, number one, they'd almost always get 14 a hysterectomy. That was nearly a guarantee, 15 which is a big deal. You know, it's individual 16 to a patient how she feels about it, but many, 17 many people feared pelvic prolapse repairs 18 because they didn't want a hysterectomy. 19 And, number two, the treatment 20 particularly of the cystocele. The so-called 21 dropped bladder was described for generations 22 of surgeons as the great challenge in pelvic 23 support just because of the way the physics in 24 the female body bear down on that area. And I</p> <p>423</p> <p>1 as a fellow would routinely see women who 2 considered us essentially a failure because we 3 would perform a repair and they would come 4 back, you know, a year later or less with some 5 sort of bulge. 6 Q. You talk about repairs in this 7 time period, 2001, 2002, what were the types of 8 repairs that were initially attempted? 9 A. Well, native tissue repair, which 10 I still do regularly, you know, but 11 everything's individualized in this field, but 12 native tissue repair was sort of the only 13 option. 14 So when you talk about very 15 specifically what areas have improved so much, 16 when you look at the advanced cystocele, the 17 dropped bladder -- native tissue repair for a 18 dropped bladder is called an anterior repair or 19 an anterior colporrhaphy. And that had a 20 notably high rate of recurrence. There are 21 other areas of prolapse that can recur but that 22 was really kind of the focal point, an area 23 that you could suspect might come back to 24 re-prolapse down the road.</p> <p>424</p> <p>1 And we had it, you know, a lot</p>		
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<p>2 of women viewed these repairs as well, they'll</p> <p>3 work for a few years and then you got to come</p> <p>4 back. And there was some fairness to that</p> <p>5 criticism, it was somewhat true.</p> <p>6 Q. So how did your treatment practice</p> <p>7 then evolve to a point when you began to use</p> <p>8 additional tools like the term Capio? And</p> <p>9 give the jury some sense for what a Capio is</p> <p>10 and why that was, in your mind, an</p> <p>innovation</p> <p>11 that was useful in the treatment of pelvic</p> <p>12 organ prolapse.</p> <p>13 A. Well, so Capio was a device that I</p> <p>14 actually had seen in my residency.</p> <p>15 First and foremost, what Capio</p> <p>16 allowed us to do was a much, much smaller</p> <p>17 dissection, much less trauma to the tissues, to</p> <p>18 do what we call a sacrospinous suspension,</p> <p>19 which is a core procedure. For any</p> <p>20 urogynecologist like myself, to do a vaginal</p> <p>21 suspension many of us rely on the</p> <p>sacrospinous.</p> <p>22 In the old days we used to have</p> <p>23 to use retractors. And it would actually be</p> <p>24 kind of a long operation, tough visualization,</p> <p>425</p> <p>1 we'd use large deep retractors to expose the</p> <p>2 ligament visually.</p> <p>3 So with Capio, and we were a</p> <p>4 part of this to help, you know, sort of push</p> <p>5 the best technique along with the Capio, we</p> <p>6 started to develop techniques that involved</p> <p>7 very, very small dissection, placement of the</p> <p>8 stitches without the retractors. And that</p> <p>9 translated into a quicker operation, less blood</p> <p>10 loss, just a much more elegant repair.</p> <p>11 So for this so-called</p> <p>12 sacrospinous suspension, it was this gem of a</p> <p>13 device.</p> <p>14 Q. And you have a Capio there. Why</p> <p>15 don't you show that for the video camera.</p> <p>16 A. So this is the Capio device. And</p> <p>17 if you've never seen, obviously it might not</p> <p>18 make much sense, but it's actually quite</p> <p>19 simple.</p> <p>20 The goal here is instead of,</p> <p>21 again, using a standard stitch technique deep</p> <p>22 in the body, we'd have to use long suturing</p> <p>23 instruments. Here, we can slide the device</p> <p>up,</p> <p>24 place it against the ligament -- and obviously</p>		
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1 I don't have this loaded with a suture. But
2 it's a single press. And if you look
3 carefully, I don't know if you can see it
4 against my hand, there's a catch mechanism.

5 Q. Okay.

6 A. And so it basically places a
7 suture with a very controlled depth. It'll
8 never go deeper than this. We developed,
9 again, a technique that was real quick and
10 efficient for sacrospinous.

11 Q. Okay. So how did you use the
12 Capio initially with something called biologic
13 and then how did you evolve into polyform
mesh

14 and then evolve into the idea of the Uphold?
15 Explain that for the jury's benefit.

16 A. Yes, so that's exactly right. So
17 we had developed, around 2000, we published
on
18 this actually, the anterior approach to the
19 sacrospinous, using the Capio was sort of a
20 watershed transition.

21 Without getting too technical,
22 this was apparently a much improved
approach to
23 the sacrospinous ligament deep in the pelvic
24 area resulting in a better anatomic outcome

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1 than what had been taught in the textbook for
2 many decades.

3 So on the heels of that, to
4 answer your question, we then started to ask
5 ourselves well, we have this really elegant
6 fixation method, how can we start to tackle
the

7 cystocele. We keep seeing these cystoceles
8 come back.

9 Q. And cystocele is the bladder?

10 A. That's the dropping of that
11 anterior vaginal wall which provides a
12 platform of support for the bladder.

13 So a woman will see a balloon of
14 tissue coming out --

15 Q. Coming out of the vagina?

16 A. Coming out. And what she's seeing
17 is actually the vaginal skin. But right
18 behind that is the actual organ of the
19 bladder. You don't see the bladder, but
20 you're seeing the vaginal wall collapse
21 underneath it.

<p>22 So to elevate it in a way that 23 would actually hold up durably in a reliable 24 fashion, we started to ask can we begin to use 428</p> <p>1 this technique not only to suspend the top of 2 the vagina to the sacrospinous but can we 3 incorporate something to reinforce the 4 cystocele.</p> <p>5 And that, to answer your 6 question, is where we got into the 7 incorporation of biological grafts.</p> <p>8 Q. And what's a biological graft?</p> <p>9 A. So a biological graft, similar to 10 how you have a skin graft put on a defect in 11 the skin, these are biological products. They 12 either come from human tissue or animal 13 tissue.</p> <p>14 Q. Okay.</p> <p>15 A. In some cases they're actually 16 autologous where they're harvested from the 17 patient's own skin. I've never done that 18 technique. But I for several years used an 19 off-the-shelf product called Repliform --</p> <p>20 Q. Okay.</p> <p>21 A. -- which was just a very, very 22 well tolerated, been used for years in various 23 degrees, various areas of surgery, had an 24 excellent tolerability profile. 429</p> <p>1 We actually incorporated 2 Repliform into a Capiro-based technique that 3 started to move the needle fairly dramatically 4 actually. Our cystocele recurrence rates which 5 at our center had historically been around 6 42 percent actually started to decline by I 7 think around 68 percent, drop in failures.</p> <p>8 Q. Okay.</p> <p>9 A. So that was very encouraging. And 10 we started to in a sense gain a reputation for 11 having, you know, developed this anterior 12 apical new method.</p> <p>13 Q. Okay. And then you transitioned 14 to using a mesh. Explain that to the jury.</p> <p>15 A. Well, so as the, you know, as 16 the -- as mesh was becoming part of the 17 discussion in surgery, you know, we started to 18 ask ourselves, you know, the outcomes would 19 certainly indicate that mesh can provide 20 certainly a better anterior outcome. And even</p>		
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<p>21 to this day, there's really uniformity that</p> <p>22 the randomized trials have shown that in</p> <p>23 terms</p> <p>24 of sheer anterior compartment support, you</p> <p>can</p> <p>24 get a phenomenally strong repair. We started</p> <p>430</p> <p>1 to ask can we incorporate a very simplified</p> <p>2 approach, you know, again, building on what</p> <p>we</p> <p>3 had done with Capio, leveraging what we had</p> <p>4 learned with Repliform and the biological</p> <p>5 graft, can we use the unique properties of</p> <p>6 mesh to actually reduce our fixation points.</p> <p>7 Because of the inherent bonding</p> <p>8 properties of mesh, you know, we could</p> <p>9 potentially do a lot less fixation, perhaps</p> <p>10 have less pain for the patient, and a quicker,</p> <p>11 simpler operation, which, you know, years</p> <p>later</p> <p>12 did eventually come to fruition.</p> <p>13 Q. How did you go from that</p> <p>14 intermediary step then to the device that the</p> <p>15 jury may be hearing about called the</p> <p>Uphold?</p> <p>16 A. So Uphold was -- so we were in our</p> <p>17 center, again, evolving from biological grafts</p> <p>18 to a mesh that we were cutting ourselves and</p> <p>19 having to stitch in.</p> <p>20 Q. Okay.</p> <p>21 A. And the sutures themselves tend</p> <p>22 to, with any surgery, cause pain, and also</p> <p>23 involve a lot of adjustment, fine-tuning,</p> <p>24 which is difficult, it's difficult to teach</p> <p>431</p> <p>1 and it's difficult to do.</p> <p>2 So Uphold was a true merge. And</p> <p>3 perhaps there was a lucky timing involved.</p> <p>But</p> <p>4 the technology that was being introduced to</p> <p>5 Boston Scientific's line called the mesh leg or</p> <p>6 the mesh arm which was incorporated into the</p> <p>7 Capio needle -- and Dr. Miller had</p> <p>contributed</p> <p>8 this technology -- came at the perfect time for</p> <p>9 all of us to realize, you know, boy, we can</p> <p>10 eliminate the suture tie-downs, we can make</p> <p>11 this operation even simpler. And so it was a</p> <p>12 collaboration of these two ideas into one.</p> <p>13 Q. So if you assume and assume with</p> <p>14 me that the Uphold would have received</p>		
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<p>15 clearance from the FDA in late 2008, was there</p> <p>16 a time prior to that where you were having 17 your own clinical experience with a device 18 that essentially was the equivalent of the 19 Uphold? And describe that for me.</p> <p>20 A. Well, yes, I mean and to varying 21 degrees. And in the end actually, pre Uphold, 22 we had experience with cutting down the 23 Pinnacle device to the specs that we felt were 24 going to be Uphold.</p> <p style="text-align: center;">432</p> <p>1 Moving from that point in time 2 actually a little bit further back, we had been 3 cutting polyform mesh to sort of convince 4 ourselves what's the best configuration here. 5 So there was a period of time where we were 6 self-shaping polyform and Pinnacle mesh to 7 match the specs of what eventually became 8 Uphold.</p> <p>9 Q. And you have with you I believe an 10 example of the Uphold. If you could hold that 11 up.</p> <p>12 So just describe what the 13 various components of that are.</p> <p>14 A. So I should have loaded this a 15 minute ago because I'll show you right now. 16 Let me show first the implant.</p> <p>17 The actual implant is what you 18 see here, the blue. It's very small. So this 19 is the implant size. It has a top edge which 20 fixes onto the top of the cystocele.</p> <p>21 This little curvature on the 22 bottom actually is designed to secure either 23 onto the cervix, to fix onto the cervix, which 24 would go right there, or to the apex of the</p> <p style="text-align: center;">433</p> <p>1 vagina if a woman has had a hysterectomy 2 before. These arms actually are what fixes the 3 mesh into place. And to show you this, let me 4 just load it up.</p> <p>5 It's very simple engineering 6 which I think is always, my feeling is simple 7 is always good when it comes to surgery.</p> <p>8 So the Capio needle loads into 9 the device. It just pulls back into place. So 10 the needle is now set in the device.</p> <p>11 Q. Okay.</p> <p>12 A. And I don't know if it'll go 13 through a napkin -- I've never tried this as a</p>		
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<p>14 demonstration but it probably will. So if 15 that's the ligament, say deep into the body, 16 you place a suture -- this is an ordinary 17 suture, no bigger than any other suture 18 caliber we've used for years with Capiro. 19 This is called a dilator tube. 20 All the dilator tube does is as it passes 21 through this ligament tissue creates just 22 enough wiggle room, just that extra millimeter 23 or two, to allow for passage of this component. 24 And this is a sleeve which you 434</p> <p>1 will see in a moment this is all going to be 2 removed. The only implant left behind is the 3 mesh. Just to show you how it goes through the 4 ligament, it'll pull through. Obviously this 5 is a napkin, so it's a bit challenging. 6 Whereas normally in years past 7 we would have had to suture this down, this 8 mesh will now self-affix into place. Now, it 9 doesn't pass through and through the muscle. 10 It's actually just making sort of a hairpin 11 turn in a very, very defined small space. 12 Q. And what about the rest of the arm 13 there, what happens to that? 14 A. This all comes off. I could do 15 that if we had a pair of scissors or something 16 to cut with. 17 Q. That's okay. I think we want to 18 keep that intact, if we can. 19 A. Essentially this plastic, 20 everything is removed except -- with the 21 exception of the implant, which this implant 22 will not only suspend the cervix or top of the 23 vagina but also this main body of the implant 24 sits underneath the cystocele. And the 435</p> <p>1 combination of the -- 2 Q. The cystocele meaning the bladder? 3 A. The dropped bladder, the dropped 4 vaginal wall. 5 Q. Okay. 6 A. This provides that reinforcement 7 to that critical area which was at the highest 8 rate of recurrence. And this implant 9 unchanged from its original design has reduced 10 our risk of cystocele recurrence literally by</p>		
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11 about 95 percent.

12 So the number of women who have
13 recurred after this to date with very careful
14 follow-up, we always say we never know
what's

15 going to happen tomorrow, but it's truly
16 changed the reality for these cystocele
17 outcomes.

18 Q. Okay. How does the size of the
19 Uphold compare to earlier generations of the
20 transvaginal mesh products for pelvic organ
21 prolapse? And you brought some.

22 A. I did.

23 Q. And let me, for the jury's
24 benefit, let me mark as Exhibit 827 the
Uphold

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1 and let me mark as 828 the Capio. And we'll
2 have to figure out a more elegant way of
3 preserving those.

4 (Deposition Exhibit Number 827 and
5 Exhibit Number 828 were marked
for

6 identification.)

7 BY MR. KEENAN:

8 Q. What did you bring here and hold
9 it up to the jury?

10 A. So this is a Prolift. Full
11 disclosure, I've never used the device. This
12 is something that I was able to get through
13 training.

14 Q. Who makes the Prolift? Not Boston
15 Scientific?

16 A. No. This is Ethicon. So this was
17 one of the quote unquote first generation lift
18 kits that came onto the market using a trocar
19 system.

20 So the Prolift -- I would be
21 unable to give a great demonstration of how
22 this goes in. But I can show you the basic
23 elements are, you know, just fundamentally
24 different, which it does not take a pelvic

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1 surgeon to see.

2 So going back to the Uphold
3 implant, this is it. I mean I have a small
4 hand, it's in the palm of my hand, and this is
5 the total Prolift mesh. This is just what it
6 is.

7 There are anterior and posterior
8 components. There are, as you can see, arms

<p>9 that are designed to go through the gluteus 10 muscles, the levator muscles, and the 11 obturator 12 muscles.</p> <p>12 And by "going through," what I 13 mean is unlike the Capio where these arms of 14 mesh just pass into the tissue a small degree 15 and hitch on, these are arms that were 16 actually 17 designed to go from inside the vagina out to 18 literally the external skin.</p> <p>18 How do we do that? Well, the 19 technique was using a long needle, and this is 20 what we call a trocar-based kit where 21 basically 22 this needle, believe it or not, would pass from 23 an external incision, like near the buttocks, 24 and the doctor would then fish this needle out 25 through the vagina. Albeit certainly was used 26 438</p> <p>1 successfully by a lot of good doctors out 2 there, this you can see is just a very, very 3 different mesh size and delivery system.</p> <p>4 These are the tubes that are 5 used for the device just to facilitate the mesh 6 placement.</p> <p>7 Q. Okay. Why don't you put that -- 8 we'll collectively mark that as Exhibit 829. 9 (Deposition Exhibit Number 829 was 10 marked for identification.) 11 MR. KEENAN: Why don't you put 12 that back in the box. 13 BY MR. KEENAN: 14 Q. And then you brought another 15 device made by another company. Just 16 describe 17 briefly what that is.</p> <p>17 A. Sure. This is Bard. And, again, 18 I've never used this, so I can't give you an 19 intimate introduction to it. But this is more 20 of an isolated anterior compartment repair 21 that Bard was --</p> <p>22 Q. What's the name of this device?</p> <p>23 A. This is Avaulta. So this is 24 Avaulta. It was designed as a four-arm 25 439</p> <p>1 system, you know, with these arms going into 2 the side wall muscles.</p> <p>3 So a through and through passage 4 with needles. Similar in delivery system</p>		
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<p>5 concept to the Prolift but obviously a somewhat</p> <p>6 scaled-down implant for single compartment use.</p> <p>7 Q. But also using the trocars as</p> <p>8 distinct from the Capio?</p> <p>9 A. Exactly.</p> <p>10 So the trocar -- just to show --</p> <p>11 this is just a different shape. This is, again</p> <p>12 this is designed for passage from the external</p> <p>13 skin into the vagina. So inherently a</p> <p>14 different concept than a direct suturing</p> <p>15 technique using the Capio device.</p> <p>16 Q. Okay, okay.</p> <p>17 MR. KEENAN: Let's mark that</p> <p>18 collectively Exhibit 830.</p> <p>19 (Deposition Exhibit Number 830 was</p> <p>20 marked for identification.)</p> <p>21 BY MR. KEENAN:</p> <p>22 Q. And I think the jury understands</p> <p>23 this, but just so we're clear, you have no</p> <p>24 clinical experience with either of those two</p> <p>440</p> <p>1 trocar-based delivery systems.</p> <p>2 A. That's right. I literally never</p> <p>3 used one of them.</p> <p>4 Q. And why is that?</p> <p>5 A. I guess it's a funny way of</p> <p>6 putting it, but I grew up on the Capio. Again,</p> <p>7 I happened to train in the Capio fixation</p> <p>8 methods and actually early on started to</p> <p>9 innovate simpler ways of using the Capio.</p> <p>10 So by the time the trocar</p> <p>11 products entered the market, it was not even</p> <p>an</p> <p>12 afterthought to begin passing needles from</p> <p>13 outside to in. We knew very efficient ways of</p> <p>14 getting suture graft or mesh into place with a</p> <p>15 simple vaginal incision.</p>		
<p>rg121313, (Pages 442:14 to 444:21)</p> <p>442</p> <p>14 Q. Okay, okay. One of the things I</p> <p>15 want to -- going back to the Uphold, I wanted</p> <p>16 to direct your attention to an exhibit that is</p> <p>17 described as a technique spotlight. This is</p> <p>18 Exhibit Number 831.</p> <p>19 (Deposition Exhibit Number 831 was</p> <p>20 marked for identification.)</p> <p>21 BY MR. KEENAN:</p> <p>22 Q. It's captioned "A New 'Minimal</p>	<p>BSC has</p> <p>previously</p> <p>designated</p> <p>this</p> <p>testimony.</p> <p>Plaintiffs</p> <p>adopt and</p> <p>incorporate</p> <p>any</p> <p>objections as</p> <p>set forth in</p> <p>their</p>	<p>Plaintiffs adopt and</p> <p>incorporate their counter</p> <p>designations, if any.</p>

<p>23 Mesh' Approach to Apical & Anterior Prolapse." 24 (Document tendered to the witness.) 443</p> <p>1 Just identify that for me, if 2 you would. And let's just take a minute to 3 identify what -- this is something you 4 authored; is that right? 5 A. That's right. 6 Q. Okay. And what is this? Let's 7 talk generally about what this is. 8 A. Well, this is a piece that is just 9 designed to basically give an overview. It 10 obviously was produced on the BSC end. It's 11 not meant to be an academic document but 12 just 13 to give a fair overview of what the concept 14 here is, the principles that led to this 15 device, and also the experience that we had 16 had at our center, and also giving some 17 background into some of the literature. 18 Q. Okay. I think this has been 19 covered a little bit with plaintiffs' counsel. 20 But directing your attention to the second 21 paragraph of the first page inside, the 22 question was asked "What was the least 23 amount 24 of material we could implant using the least invasive means of fixation to achieve the best results?" 444</p> <p>1 Do you see that? 2 A. Yes. 3 Q. Describe how the Uphold 4 accomplished those goals. 5 A. Well, you know, the least amount 6 of material was -- this was a shockingly small 7 implant to a lot of people. But through our 8 device -- through that progression of device 9 development, we were fairly confident that 10 this was, you know, that this relatively small 11 implant would provide a Level I, II support. 12 The best means of fixation is 13 fairly self-evident from what I was just 14 showing you. The use of trocars was not in 15 question here. We needed something 16 Capio-based, no external incisions, and, more 17 importantly, no passing through sensitive 18 muscle groups of the body, and then achieving</p>	<p>counter designations, if any.</p>	
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<p>19 the best results. I mean we were committed to</p> <p>20 following these patients, and we still are to</p> <p>21 this day.</p>		
<p>rg121313, (Pages 445:9 to 452:14)</p> <p>445</p> <p>9 Q. On the next page you talk about</p> <p>10 the no overlapping suture line. And I'll just</p> <p>11 read it here. "Thus far in our experience, it</p> <p>12 appears the rate of vaginal mesh erosion</p> <p>13 associated with our repairs is favorable as</p> <p>14 there is no overlapping of the mesh implant</p> <p>15 and the suture line."</p> <p>16 Do you see that?</p> <p>17 A. Yes, I do.</p> <p>18 Q. Explain to the jury how that was</p> <p>19 built into the design of the Uphold.</p> <p>20 A. Well, frankly this was about I</p> <p>21 think 30 cases into our Uphold experience.</p> <p>22 And I remember the day that we were</p> <p>operating,</p> <p>23 we realized gosh, why are we making a</p> <p>vertical</p> <p>24 incision, why not, you know, as with other</p> <p>446</p> <p>1 vaginal procedures we do, why not configure</p> <p>2 that incision to avoid overlap with the mesh.</p> <p>3 Q. And when you say "overlap with the</p> <p>4 mesh," just explain what you mean.</p> <p>5 A. Well, so at the end of the -- this</p> <p>6 would be a very crude rendering -- but if you</p> <p>7 look at the Uphold as an implant, I'll show it</p> <p>8 alone here, this is something we drew before</p> <p>9 for a different reason.</p> <p>10 But at the end of the day you</p> <p>11 either have to make an incision in the vagina</p> <p>12 that is closed in a configuration that's</p> <p>13 directly overlying the mesh, which we had</p> <p>done</p> <p>14 initially with very good success, we didn't</p> <p>15 have many exposures at all. But it was the</p> <p>16 sort of "aha" moment where why don't we</p> <p>just</p> <p>17 put our incision a few millimeters going this</p> <p>18 way above the mesh, so when we close it your</p> <p>19 stitch line, when you see that sutured vaginal</p> <p>20 incision nice and closed, would have no</p> <p>21 communication with the mesh, and over the</p> <p>mesh</p> <p>22 would just be intact vagina that was brought</p> <p>23 back up into place.</p>	<p>BSC has previously designated this testimony. Plaintiffs adopt and incorporate any objections as set forth in their counter designations, if any.</p>	<p>Plaintiffs adopt and incorporate their counter designations, if any.</p>

<p>24 So it was just another principle 447</p> <p>1 that we felt might help to reduce mesh exposure</p> <p>2 and complications. And we still do it to this 3 day. I like the technique.</p> <p>4 Q. How have your patients responded 5 to the Uphold? Just give the jury some sense 6 for what your clinical experience has been 7 with your patients using the Uphold all these 8 years.</p> <p>9 A. You know, it's been a real 10 positive practice shift in many fundamental 11 ways.</p> <p>12 I just did two procedures 13 yesterday. I wouldn't be doing the procedure 14 if I didn't believe in it after all this time.</p> <p>15 But these are patients who have 16 in many, many cases been able to avoid a 17 hysterectomy they didn't want. These are 18 patients who we have been able to drive down 19 the rate of cystocele or large prolapse 20 recurrence from a 42 percent range to literally</p> <p>21 now we're looking at about 1 to 3 percent, 22 which is a phenomenal reduction.</p> <p>23 So for these women who I see 24 every day who when I lay all options on the 448</p> <p>1 table with a vast amount of discussion these 2 days, these women are going to the gym, they're</p> <p>3 traveling, they want to be lifting suitcases 4 and squatting and exercising in the years to 5 come and they in many cases don't want a 6 hysterectomy. This turns out to be an excellent</p> <p>7 match for many of them.</p> <p>8 And in terms of patient 9 satisfaction, it's been tremendously positive. 10 To date, I'll knock wood as I say it, I have 11 never had to remove one of these implants. 12 I've never seen an infection. I tell patients 13 I've never seen a rejection certainly, I've 14 never even heard of that. And this is I 15 think one of the happier groups in my practice.</p> <p>16 Q. Well, let's talk about, let's 17 shift to talk a little bit about the published 18 clinical studies of your device, the Uphold,</p>		
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<p>19 and I'm talking about both things published in 20 peer-reviewed journals and also poster 21 presentations. 22 I'm going to mark as Exhibit 23 Number 832 a document that's entitled "Uphold 24 Clinical Overview." 449 1 (Deposition Exhibit Number 832 was 2 marked for identification.) 3 BY MR. KEENAN: 4 Q. If you could describe for the jury 5 what that summary exhibit represents. 6 (Document tendered to the witness.) 7 A. So this looks like it goes beyond 8 the scope of just our practice, but several of 9 these studies on here are from our division. 10 It looks like this is a 11 compilation of not only the peer-reviewed 12 publications but also some clinical posters 13 presented at meetings. 14 You know, what this I guess I'll 15 say overall because I've looked at this set of 16 studies before, one thing that stands out is it 17 shows a great consistency in terms of the 18 safety. 19 Mesh exposure is not the only 20 important issue to talk about in terms of 21 safety, we need to talk about pain and 22 dyspareunia. But if you look at the mesh 23 exposure rate, it's very low, single digits for 24 all of these studies, and low single digits at 450 1 our institution and elsewhere with the De 2 Tayrac study. 3 Our Vu et al. study, that's Andy 4 Vu, he's the physician that drove the analysis 5 of this International Urogynecology Journal 6 study in 2012. This is important for me 7 because it represents a snapshot of every 8 Uphold case we had ever done. 9 That was the goal is to get 10 every patient in. We literally mailed out 11 Starbucks cards until we got a nearly uniform 12 follow-up. 13 These were just very satisfied 14 patients. The mesh exposure rate at that time 15 was 2.6 percent. With re-analysis, that may</p>		
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<p>16 even go down. And very satisfied patients with</p> <p>17 excellent anatomic outcomes. So we continue to</p> <p>18 follow not only that cohort but the others very</p> <p>19 closely.</p> <p>20 What's helpful with this</p> <p>21 compilation though is it shows me also in other</p> <p>22 people's hands, in surgeons' hands, and in</p> <p>23 other parts of the world, they seem to be</p> <p>24 getting a consistent result.</p> <p>451</p> <p>1 There's absolutely nothing we do</p> <p>2 that is free of risk, but this shows me it's a</p> <p>3 very reasonable risk profile for a good</p> <p>4 anatomic outcome.</p> <p>5 Q. Let's just pause for a moment and</p> <p>6 let's identify what studies then would not be</p> <p>7 reflected on this sheet, either because they</p> <p>8 are not finished or they're just beginning.</p> <p>9 So what additional studies a year from now may</p> <p>10 we have additional information about that</p> <p>11 would not be reflected in this exhibit?</p> <p>12 A. Uphold is kind of in a unique</p> <p>13 position worldwide right now, and I think it's</p> <p>14 a great compliment to the device itself, is</p> <p>15 that it's being studied in many different</p> <p>16 arenas.</p> <p>17 At our center, for example,</p> <p>18 there's a multi-center study that actually</p> <p>19 doesn't involve me but my senior partner,</p> <p>20 Dr. Sand, along with Dr. Culligan and</p> <p>21 Dr. Rosenblatt at Harvard, they have a</p> <p>22 multi-center study of Uphold.</p> <p>23 There's an NIH-funded study.</p> <p>24 Essentially it's one of the pelvic floor</p> <p>452</p> <p>1 networks. Two major studies actually. One</p> <p>2 looking at Uphold as a comparison to a</p> <p>3 hysterectomy. Another looking at Uphold in</p> <p>4 comparison to abdominal sacral colpopexy</p> <p>which</p> <p>5 is another very common procedure for</p> <p>advanced</p> <p>6 prolapse.</p> <p>7 These are very prominent</p> <p>8 investigators, very high level studies, Level I</p> <p>9 evidence, very exciting to see it held up to</p>		
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<p>10 that level of scientific scrutiny.</p> <p>11 And then additional studies I</p> <p>12 should say in Australia and Europe. I have</p> <p>no</p> <p>13 connection to those, but it's nice to see that</p> <p>14 they're ongoing.</p>		
<p>rg121313, (Pages 453:9 to 459:13)</p> <p>453</p> <p>9 Q. Let me shift gears and talk a</p> <p>10 little bit about compensation, okay.</p> <p>11 There's been questions asked of</p> <p>12 you about how much money you've earned.</p> <p>13 Generally speaking, do you feel like you've</p> <p>14 been compensated fairly or unfairly? What</p> <p>15 would you say about the kind of money</p> <p>you've</p> <p>16 earned over this period of time?</p> <p>17 A. You know, I guess I don't look at</p> <p>18 things quite that way. I mean it is what it</p> <p>19 is. The work I've put into this is the</p> <p>20 equivalent of a whole other job. So I think</p> <p>21 that I've brought innovation to the field that</p> <p>22 I feel very, very proud of.</p> <p>23 If I had any doubt about that, I</p> <p>24 may have questions about making money</p> <p>outside</p> <p>454</p> <p>1 of my day job. But these I think are real</p> <p>2 advances in our field, and I see these advances</p> <p>3 helping women in real life. I see these women</p> <p>4 come back.</p> <p>5 So I'm comfortable with the fact</p> <p>6 that I made a business arrangement with</p> <p>Boston</p> <p>7 Scientific, and that this what I consider to be</p> <p>8 good work that I'm very proud of, and</p> <p>through a</p> <p>9 lot of hard work, has translated into that</p> <p>10 money.</p> <p>11 Q. Okay. I want to talk a little bit</p> <p>12 about training.</p> <p>13 Have you been involved in</p> <p>14 helping train physicians in the surgical</p> <p>15 techniques of implantation of the Uphold?</p> <p>16 A. Yes.</p> <p>17 Q. I want to hand you the Directions</p> <p>18 for Use, and I want to mark it as Exhibit 833.</p> <p>19 (Deposition Exhibit Number 833 was</p> <p>20 marked for identification.)</p> <p>21 BY MR. KEENAN:</p> <p>22 Q. Do the Directions for Use tell</p>	<p>BSC has</p> <p>previously</p> <p>designated</p> <p>this</p> <p>testimony.</p> <p>Plaintiffs</p> <p>adopt and</p> <p>incorporate</p> <p>any</p> <p>objections as</p> <p>set forth in</p> <p>their</p> <p>counter</p> <p>designations,</p> <p>if any.</p>	<p>Plaintiffs adopt and</p> <p>incorporate their counter</p> <p>designations, if any.</p>

<p>23 physicians they need to get trained? 24 (Document tendered to the witness.) 455</p> <p>1 A. Yes. 2 Q. Exhibit 833 -- let me just to 3 expedite things. The Directions for Use state 4 that "Training on the use of the Uphold 5 Vaginal Support System is recommended and 6 available. Contact your company's sales 7 representative to arrange for this training. 8 Physicians should have experience in the 9 management of complications resulting from 10 procedures using surgical mesh." 11 You'd agree with that? 12 A. Correct. 13 Q. Okay. Give the jury some sense 14 for what kind of training you have provided 15 physicians in the field with respect to your 16 device, the Uphold? 17 A. Speaking to my involvement? 18 Q. Yes. 19 A. Well, specific to Uphold, the 20 training I've provided and my involvement with 21 the Pelvic Floor Institute, which was a 22 program that involved not only myself but 23 other academic and nonacademic surgeons 24 teaching cadaver labs, providing anatomy 456</p> <p>1 lectures and didactics. 2 I've also precepted doctors 3 visiting my operating room just to look at our 4 best practices. That's usually a fine-tuning 5 issue, not so much for a new surgeon but 6 somebody looking just to see the finer points 7 of how we manage our operating room. 8 But largely through the Pelvic 9 Floor Institute and through weekend cadaver 10 labs. 11 Q. I'm going to mark as Exhibit 834 a 12 document that I believe is from the Pelvic 13 Floor Institute. 14 (Deposition Exhibit Number 834 was 15 marked for identification.) 16 BY MR. KEENAN: 17 Q. Can you identify this for me? 18 (Document tendered to the witness.) 19 A. This looks like one of the slide 20 decks that would have been used for the 21 didactic portion of the Pelvic Floor Institute 22 lab.</p>		
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<p>23 Q. There's a Table of Contents, 24 Didactic Topics, on Page 2. Do you see that? 457</p> <p>1 A. Yes. 2 Q. What does this represent? 3 A. This just represents an overview 4 when doctors are arriving early in the morning 5 to show them the topics that we'll be covering 6 for that day. 7 Q. And how long typically would the 8 didactic go on for? 9 A. Several hours. This was usually, 10 my recollection, boy, probably a two- to 11 three-hour chunk of time, depending on the 12 number of questions and discussion. 13 Q. There's a page here, I don't 14 believe they're numbered, but there's a page 15 here that has an illustration of the 16 sacrospinous ligament. 17 A. Okay. 18 Q. What is that? 19 A. Well, that's showing obviously 20 kind of in a stripped down view of the -- it's 21 showing a key element of the repair which is 22 the surgeon's finger here identifying what's 23 called the ischial spine, which is a little 24 bit of a bony landmark. And then the Capio 458</p> <p>1 being placed adjacent to that finger. 2 It's actually in surgical terms 3 quite a simple technique, but this is showing 4 the relationship between the bony anatomy and 5 the proper placement of the suture. 6 Q. What about managing complications, 7 was that something that was typically 8 addressed in the didactic? 9 A. Typically, yes. I mean naturally, 10 and that became obviously a bit more detailed 11 at certain points in time. But the management 12 of surgical complications I think even in this 13 slide deck is going to show up at the end. So 14 this was a typical sort of set of slides. 15 Usually we covered this as its own unit. 16 Q. Okay. 17 A. Oftentimes after the actual 18 hands-on lab, we'd go and purposefully do this</p>		
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<p>19 over lunch so that we had time to kind of 20 dwell on questions, finer points, how do you 21 manage this, how do you manage that, do you 22 use estrogen cream, things along those lines. 23 That's where the complications were usually 24 covered.</p> <p style="text-align: center;">459</p> <p>1 Q. And after every one of these 2 didactics and cadaver labs, did Boston 3 Scientific endeavor to reach out to those who 4 attended and evaluate whether they thought the 5 training was useful and beneficial? 6 A. I'm assuming that was every time. 7 I know that they would often send us e-mails 8 just echoing positive feedback. You know, a 9 certain percentage of patients expressing that 10 they love the course or would recommend it to 11 their colleagues, whatever it may be. 12 (Deposition Exhibit Number 835 was 13 marked for identification.)</p>		
<p>rg121313, (Pages 460:7 to 462:11) 460</p> <p>7 (Deposition Exhibit Number 836 and 8 Number 837 were marked for 9 identification.) 10 BY MR. KEENAN: 11 Q. And I've marked as Exhibit 835, 12 836, and 837. (Documents tendered to the 13 witness.) 14 Are these examples of the 15 results of the feedback that we received back 16 from those that attended? And are you copied 17 on these? 18 A. I recall being copied on several 19 of these, you know. It seemed to me that for 20 the vast majority of labs they'd collect this 21 feedback. 22 We sort of knew doctors were 23 getting a great experience. They'd often tell 24 us during the labs. But it was always nice to</p> <p style="text-align: center;">461</p> <p>1 see the formal feedback in the collection of 2 this data. 3 Q. And based on the evaluations 4 received from those that attended, it looks 5 like what, the rankings were -- 6 A. Well, for the ones that you 7 provided, I mean it looks like close to the</p>	<p>BSC has previously designated this testimony. Plaintiffs adopt and incorporate any objections as set forth in their counter designations, if any.</p>	<p>Plaintiffs adopt and incorporate their counter designations, if any.</p>

<p>8 exceptional range, which is a good thing, in 9 terms of the faculty, didactic, hands-on. 10 And not to toot our own horns, 11 because it wasn't just me, but I was never 12 surprised by these results because it really 13 was a very high caliber teaching module that 14 was put together for really surgeons that came 15 in oftentimes with a whole set of different 16 interests and needs that day, but I felt like 17 we could meet their needs very well. They 18 invested a lot in the hemi-pelvis. 19 It was a unique training 20 environment. So I was never surprised to see 21 the good feedback. 22 Q. Okay. I want to shift gears and 23 talk a little bit about what your clinical 24 experience has been with respect to your 462 1 clinical observations with respect to how 2 polypropylene responds to human tissue. 3 I want to ask some questions 4 based on your experience as a clinician what 5 you have seen in terms of the healing process 6 with patients who have had polypropylene 7 implants, either in the form of sutures or in 8 transvaginal mesh. 9 Based upon your experience as a 10 physician, how would you describe the tissue 11 response in the body to polypropylene?</p>		
<p>rg121313, (Pages 462:13 to 463:8) 462 13 THE WITNESS: My clinical 14 experience with polypropylene has been, again, 15 I'm privileged that I've been able to operate 16 in the era of using these Type I polypropylene 17 mesh products, because I know that other 18 implants, like Goretex and whatnot, were less 19 well tolerated in years past. But I've just 20 simply never had a material problem with 21 polypropylene, period. 22 And I tell patients that, you 23 know, I've now done these in the thousands when 24 you talk about slings, for example, I have 463 1 literally never seen an infection or rejection, 2 some kind of a delayed strange material 3 complication, inflammation, ever, not once. 4 Complications, of course, are</p>	<p>BSC has previously designated this testimony. Plaintiffs adopt and incorporate any objections as set forth in their counter designations, if any.</p>	<p>Plaintiffs adopt and incorporate their counter designations, if any.</p>

<p>5 inherent to anything we do. But on a material 6 level, absolutely no concerns recommending it 7 to my patients, to my wife, to my mother, 8 clinically based on what I know as a surgeon.</p>		
<p>rg121313, (Pages 463:15 to 464:11) 463 15 Q. But have you ever seen any 16 evidence, clinical evidence, of mesh shrinkage, 17 for example? 18 A. I truly have not. I know that 19 that's been a point of discussion, and I have 20 my -- I think that, you know, I have my clinical 21 clinical experience to indicate that I've just 22 never seen that happen. 23 I think there's certainly a 24 fibrous scar that forms around any surgery. 464 1 That's the nature of surgical scar even 2 probably with native tissue. 3 So if there's any contraction or 4 scar deposition, that may be plausible as a 5 reason why things can contract slightly. But 6 I've just never seen that clinically with this 7 technique. 8 Q. What about degradation or 9 degrading of the mesh, have you ever seen that 10 clinically? 11 A. No.</p>	<p>BSC has previously designated this testimony. Plaintiffs adopt and incorporate any objections as set forth in their counter designations, if any.</p>	<p>Plaintiffs adopt and incorporate their counter designations, if any.</p>
<p>rg121313, (Pages 473:15 to 476:4) 473 15 As a clinician, do you believe 16 polypropylene mesh is a safe and appropriate 17 material for use in the treatment of prolapse? 18 A. Yes. 19 Q. As a clinician, do you believe the 20 Uphold is a safe and effective device for the 21 use in treatment of prolapse? 22 A. Yes. 23 Q. Is mesh appropriate for every 24 woman who's experiencing prolapse? 474 1 A. No. 2 Q. What kind of things weigh into 3 your risk/benefit equation in determining 4 whether or not a patient is an appropriate 5 candidate for the Uphold? 6 A. Well, we go through this every 7 day. It's a large part of our job is to talk</p>	<p>BSC has previously designated this testimony. Plaintiffs adopt and incorporate any objections as set forth in their counter designations, if any.</p>	<p>Plaintiffs adopt and incorporate their counter designations, if any.</p>

<p>8 to the patient.</p> <p>9 First of all, what's the</p> <p>10 severity of her prolapse. Is it a high grade</p> <p>11 prolapse in a woman prone to recurrence? Is</p> <p>12 it</p> <p>13 a recurrent case, she's already failed a native</p> <p>14 tissue repair. These are two factors that</p> <p>15 could steer you towards something more</p> <p>16 durable,</p> <p>17 whether it's transvaginal mesh or perhaps in</p> <p>18 some surgeons' hands an abdominal</p> <p>19 colpopexy, we</p> <p>20 reach for these next level operations because</p> <p>21 we want to offer this woman with severe</p> <p>22 prolapse as one of her options a more durable</p> <p>23 repair. No question in my mind that these fill</p> <p>24 that role.</p> <p>25 And then finally patient choice.</p> <p>26 I ask my patients directly every day what is</p> <p>27 your biggest goal and what is your biggest</p> <p>28 475</p> <p>29 fear. And if you are unwilling to accept the</p> <p>30 risks and benefits of any potential procedure,</p> <p>31 it's not for you. For someone then that means</p> <p>32 native tissue repair is unacceptable because</p> <p>33 they will not accept a 30 percent risk of it</p> <p>34 bulging back in the future. And for other</p> <p>35 women they prefer the native tissue repair</p> <p>36 because they're not willing to accept the 3 or</p> <p>37 2 or 5 percent risk of a mesh exposure,</p> <p>38 whatever it may be for her surgeon. And</p> <p>39 that's</p> <p>40 fair.</p> <p>41 So it's about individual choice,</p> <p>42 it's about honest counseling, and that's how I</p> <p>43 select.</p> <p>44 Q. Today what are the sources of</p> <p>45 information for physicians about the risks</p> <p>46 and</p> <p>47 benefits of the Uphold or similar products</p> <p>48 using transvaginal mesh?</p> <p>49 A. Well, it's pervasive. I mean on</p> <p>50 the level of literature, you know, society,</p> <p>51 guideline statements, opinion papers,</p> <p>52 continuing medical education. Industry is a</p> <p>53 slice of that pie but actually a very small</p> <p>54 slice.</p> <p>55 476</p> <p>56 The doctor who chooses to adopt</p> <p>57 this into his or her practice, you know, really</p> <p>58 has all tiers to get that sort of training or</p>		
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1. Objections to Counter Exhibits.

- a. Goldberg 786, 827, 828, 829, 830, 831, and 832 have been previously designated by BSC. Plaintiffs adopt and incorporate the objections to these exhibits as set forth in Plaintiffs Objections and Counter-Designations to Roger Goldberg, MD, if any.

2. Counter Exhibits to Counter Exhibits

- a. Plaintiffs adopt and incorporate the exhibits designated in their counter exhibits for this witness.

DATED: July 20, 2015

Respectfully Submitted,

TRACEY & FOX LAW FIRM

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CERTIFICATE OF SERVICE

I hereby certify that on July 20, 2015, I electronically filed the foregoing document with the Clerk of the Court using the CM/ECF system which will send notification of such filing to the CM/ECF participants registered to receive service in this MDL.

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